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[8] J.C. Hyun, H. Kim, J.S. Lee, H.-S. Song and H.W. Jung, **Transient solutions of the dynamics in film blowing processes**, J. Non-Newtonian Fluid Mech. ...[linkinghub.elsevier.com/retrieve/pii/S0377025705002235](http://linkinghub.elsevier.com/retrieve/pii/S0377025705002235)[Show more results from linkinghub.elsevier.com](#)**Transient Solutions of Nonlinear Dynamics in Film Blowing ...**

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Joo Sung Lee

Hyun, J. C., H. Kim, J. S. Lee, H.-S. Song and H. W. Jung, "**Transient Solutions** of the **Film Blowing** Dynamics," J. Non-Newtonian Fluid Mech., 121, ...  
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(WO/2006/088267) A METHOD FOR SOLVING TRANSIENT SOLUTION AND ...

The present invention concerns a dynamic scheme for the **film-blowing** process and a method for solving **transient solutions** for the process. ...  
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### **Transient solutions** of the dynamics in **film blowing** processes

JC Hyun, H Kim, JS Lee, HS Song, HW Jung - Journal of Non-Newtonian ..., 2004 - Elsevier

The **transient** behavior and stability of **film blowing** have been investigated solving the governing equations consisting of the moving-boundary partial differential equations. Incorporating an orthogonal collocation on finite elements and a coordinate transformation, a new numerical scheme ...

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### **Transient solutions** of the dynamics in low-speed fiber spinning process ...

JS Lee, DM Shin, HW Jung, JC Hyun - Journal of Non-Newtonian Fluid ..., 2005 - Elsevier

... We have thus addressed this problem, ie, obtaining **transient solutions** when flow-induced crystallization occurs on the spinline, since it is ... the problem is equally warranted in other important polymer processing operations such as **film casting** [19] and **film blowing** [20] and [21] ...

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### **Transient elongational viscosities and drawability of polymer melts**

HM Laun, H Schuch - Journal of Rheology, 1989 - link.aip.org

... **Transient** elongational viscosities of polyethylene melts from converging flow (entrance pressure losses) and from ... tests allow predictions on differences of the drawability (minimum **film thickness**) in tubular **film blowing**. ... Homogeneous isotropic liquids; **solutions** and melts. ...

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### **[CITATION] Polymer processing: principles and design**

DG Baird, DI Collias - 1995 - Butterworth-Heinemann

Cited by 115 - Related articles - All 3 versions

### **[PDF] Frequency response of film casting process**

JS Lee, HW Jung, JC Hyun - Korea-Australia Rheology Journal, 2003 - rheology.or.kr

... as well as an academically interesting stability topic for other extensional deformation processes as well like fiber spinning and **film blowing**. ... stability analysis suffices for determining the onset of the instability, while for more detailed sensitivity analysis **transient solutions** of the ...

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### **Transient solutions** of the dynamics of **film casting process** using a 2-D viscoelastic ...

JM Kim, JS Lee, DM Shin, HW Jung, JC ... - Journal of Non-Newtonian ..., 2005 - Elsevier

... The same phenomenon also occurs in other extensional deformation processes, eg, fiber spinning and **film blowing**. ... Despite significant progress made by these efforts, there still remains the need for **transient solutions** of viscoelastic **film casting** and the fundamental ...

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### **A transient infrared thermography method for simultaneous film cooling ...**

SV Ekkad, S Ou, RB Rivir - Journal of Turbomachinery, 2004 - link.aip.org

... The wall temperature on the mainstream side is monitored and rises as the surface gets heated during the **transient** test at a more gradual rate than the ... The Frossling **solution** for a cylinder in cross-flow is shown for comparison. This result is for a cylinder without **film holes**. ...

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**Transient and steady-state solutions of 2D viscoelastic nonisothermal simulation ...**

DM Shin, JS Lee, JM Kim, HW Jung, JC Hyun - Journal of Rheology, 2007 - link.aip.org

... The PTT model, known for its robustness in portraying dynamics in the extensional deformation processes which include the **film casting** of this study along with **film blowing** and fiber spinning as well, renders the **transient and steady state solutions** of the dynamics in the 2D ...

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**Stability of isothermal spinning of viscoelastic fluids**

HW Jung, JC Hyun - Korean Journal of Chemical Engineering, 1999 - Springer

... in contrast to the exact stability analysis method which requires solving the **transient equations** ... of nonlinear dynamic systems like existence and uniqueness of the **solutions**, possibility of ... processes of polymer processing like fiber spinning, **film casting**, **film blowing**, calendering ...

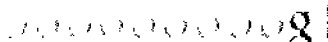

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**Multiplicity, bifurcation, stability and hysteresis in dynamic solutions of film blowing ...**

DM Shin, JS Lee, HW Jung, JC Hyun - Journal of Rheology, 2007 - link.aip.org

... AIChE J. 42, 1388–1396 (1996). HyunJ.C., H.Kim, JSLee, HSSong, and HWJung, "Transient solutions of the dynamics in **film blowing** processes," J. Non-Newtonian Fluid Mech. 121, 157–162 (2004). JungH.W., and JCHyun ...

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